

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A component mounting apparatus comprising:

~~a pair of~~ component supply sections for accommodating a plurality of components, ~~the said~~ component supply sections being arranged on opposite sides of a board positioning section, respectively;

a first mounting head section ~~comprising~~ including

(i) a rotary member constructed and arranged ~~adapted~~ to be rotatively driven about a horizontal axis,

(ii) ~~a plurality of~~ component suction nozzles attached to said ~~the~~ rotary member along respective axes ~~which each intersect the horizontal axis~~, and

(iii) a recognition section opposed to said ~~the~~ rotary member,

said ~~the~~ first mounting head section being operable constructed and arranged to

(a) perform successive suction operations in order to pick up ~~the~~ components from one of said component supply sections via said ~~with the plural~~ component suction nozzles, respectively, and to

(b) perform, via said recognition section upon intermittent rotation of said ~~rotary member~~, successive recognition operations of the components respectively sucked by said ~~the~~ component suction nozzles ~~by the recognition section upon intermittent rotation of the rotary member at one of the component supply sections, and~~

(c) ~~and the first mounting head section being operable to~~ successively mount the components, respectively sucked by said ~~the~~ component suction nozzles, onto a the board at said board positioning section upon intermittent rotation of said ~~the~~ rotary member ~~at the board positioning section; and~~

a second mounting head section ~~comprising~~ including

(i) a rotary member constructed and arranged ~~adapted~~ to be rotatively driven about a horizontal axis,

(ii) ~~a plurality of~~ component suction nozzles attached to said ~~the~~ rotary member along respective axes ~~which each intersect the horizontal axis~~, and

(iii) a recognition section opposed to said ~~the~~ rotary member,

said the second mounting head section being operable constructed and arranged to

(a) perform successive suction operations in order to pick up the components from another one of said component supply sections via said with the plural component suction nozzles, respectively, and to

(b) perform, via said recognition section upon intermittent rotation of said rotary member, successive recognition operations of the components respectively sucked by the said component suction nozzles by the recognition section upon intermittent rotation of the rotary member at the other of the component supply sections, and

(c) and the second mounting head section being operable to successively mount the components, respectively sucked by the said component suction nozzles, onto the board at said board positioning section upon intermittent rotation of the said rotary member at the board positioning section.

2. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein each of the said first and second mounting head sections comprises a plurality of further includes nozzle rotation driving mechanisms for rotating the corresponding said component suction nozzle nozzles, respectively, around the respective axes with respect to a corresponding said the rotary member, and wherein

each of said the component suction nozzles of said the first and second mounting head sections is constructed and arranged to can be rotated around its respective axis the axes thereof by the a respective one of said nozzle rotation driving mechanism mechanisms in accordance with recognition results from a corresponding said the recognition section, so as to perform thereby performing successive adjustment of postures of the components sucked by said the corresponding said component suction nozzles.

3. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein the said rotary member of each said the first and second mounting head sections is constructed and arranged to can be intermittently rotated at regular angular intervals at a corresponding one of said the component supply table sections, and wherein

such that at an angular position of said ~~the~~ rotary member where a corresponding one of said ~~the~~ component suction nozzles is opposed to a ~~the~~ component of said corresponding one of said ~~the~~ component supply sections ~~table~~, another corresponding one of said ~~the~~ component suction nozzles is opposed to ~~the~~ a corresponding said recognition section.

4. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein the said rotary member of each said ~~the~~ first and second mounting head sections is constructed and arranged to ~~can~~ be intermittently rotated at regular angular intervals at a corresponding one of said ~~the~~ component supply table sections, ~~and wherein~~

such that ~~a~~ ~~the~~ component sucked by a corresponding one of said ~~the~~ component suction ~~nozzle~~ nozzles is opposed to ~~the~~ a corresponding said recognition section during ~~the~~ rotation of said ~~the~~ rotary member.

5. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein each of said ~~the~~ first and second mounting head sections further includes ~~comprises~~ an illuminator for illuminating the components sucked by corresponding said ~~the~~ component suction nozzles when each of the components is opposed to ~~the~~ recognizing a corresponding said recognition section.

6. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein each of said ~~the~~ first and second mounting head sections further includes ~~comprises~~

- (i) a head main body which includes a corresponding said ~~the~~ rotary member,
- (ii) a frame which supports said ~~the~~ head main body and a corresponding said ~~the~~ recognition section, and
- (iii) an elevation mechanism for elevating said ~~the~~ head main body with respect to ~~the~~ said frame.

7. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein each of said ~~the~~ first and second mounting head sections further includes: ~~comprises~~

(i) a head main body which includes a corresponding said ~~the~~ rotary member,
(ii) a frame which supports said ~~the~~ head main body and a corresponding said ~~the~~ recognition section, and
(iii) an elevation mechanism for elevating said ~~the~~ frame.

8. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein said ~~the~~ rotary member members of each said ~~the~~ first and second mounting head sections are is constructed and arranged adapted to rotate at a lower speed at the an end of the rotation thereof with respect to the a speed at the a start of the rotation.

9. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein said ~~the~~ first and second mounting head sections are independently movable between said ~~the~~ component supply sections and the said board positioning section, respectively, and wherein ~~the~~

said first mounting head section is constructed and arranged to ~~can~~ perform successive mounting of components onto the board positioned at the said board positioning section while said ~~the~~ second mounting head section performs successive component suction and recognition operation operations at a corresponding one of said ~~the~~ component supply section sections.

10. (Currently amended) ~~A~~ The component mounting apparatus according to claim 9, wherein one of said ~~the~~ first and second mounting head sections is constructed and arranged adapted to mount components at high speed, and the other of the said first and second mounting head sections is constructed and arranged adapted to mount components that require mounting with a high degree of precision.

11. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein either of said ~~the~~ first and second mounting head section sections is constructed and arranged to ~~can~~ be selectively operated in accordance with a type of the board positioned at the said board positioning section, and wherein

one of ~~the~~ said first and second mounting head sections is constructed and arranged ~~adapted~~ to mount larger components, and the other of ~~the~~ said first and second mounting head sections is constructed and arranged ~~adapted~~ to mount smaller components.

12. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein either of said ~~the~~ first and second mounting head ~~section~~ sections is constructed and arranged ~~to can~~ perform suction of larger components after finishing suction of smaller components.

13. (Currently amended) ~~A~~ The component mounting apparatus according to claim 1, wherein either of said ~~the~~ first and second mounting head ~~section~~ sections is constructed and arranged ~~to can perform~~ mount ~~operations of~~ smaller components after mounting larger components.

Claims 14-24 (Cancelled)

25. (New) A component mounting apparatus comprising:
component supply sections for accommodating a plurality of components, said component supply sections being arranged on opposite sides of a board positioning section, respectively;
a first mounting head section including
(i) a first rotary member constructed and arranged to be rotatively driven about a horizontal axis, and
(ii) first component suction nozzles attached to said first rotary member along first respective axes;
a second mounting head section including
(i) a second rotary member constructed and arranged to be rotatively driven about a horizontal axis, and
(ii) second component suction nozzles attached to said second rotary member along second respective axes;
a first recognition section; and
a second recognition section,

wherein said first mounting head section is constructed and arranged to

(a) perform successive suction operations in order to pick up components from one of said component supply sections via said first component suction nozzles,

(b) move to said first recognition section so as to have performed, upon rotation of said first rotary member, successive recognition operations of the components respectively sucked by said first component suction nozzles, and

(c) successively mount the components, respectively sucked by said first component suction nozzles, onto a board at said board positioning section upon rotation of said first rotary member, and

wherein said second mounting head section is constructed and arranged to

(a) perform successive suction operations in order to pick up components from another one of said component supply sections via said second component suction nozzles,

(b) move to said second recognition section so as to have performed, upon rotation of said second rotary member, successive recognition operations of the components respectively sucked by said second component suction nozzles, and

(c) successively mount the components, respectively sucked by said second component suction nozzles, onto a board at said board positioning section upon rotation of said second rotary member.

26. (New) The component mounting apparatus according to claim 25, wherein

said first mounting head section further includes first nozzle rotation driving mechanisms for rotating said first component suction nozzles about the first respective axes, respectively, with said first mounting head section also being constructed and arranged to rotate said first component suction nozzles, via said first rotation driving mechanisms, respectively about the first respective axes in accordance with recognition results from said first recognition section so as to perform successive adjustment of postures of the components sucked by said first component suction nozzles, and

said second mounting head section further includes second nozzle rotation driving mechanisms for rotating said second component suction nozzles about the second respective axes, respectively, with said second mounting head section also being constructed and arranged to rotate said second

component suction nozzles, via said second rotation driving mechanisms, respectively about the second respective axes in accordance with recognition results from said second recognition section so as to perform successive adjustment of postures of the components sucked by said second component suction nozzles.

27. (New) The component mounting apparatus according to claim 26, wherein
said first and second rotary members are each constructed and arranged to rotate at a lower speed at an end of rotation thereof with respect to a speed at a start of the rotation.

28. (New) The component mounting apparatus according to claim 26, wherein
said first and second mounting head sections are independently movable between said component supply sections and said board positioning section, respectively, and
said first mounting head section is constructed and arranged to perform successive mounting of components onto the board positioned at said board positioning section while said second mounting head section is used to perform successive component suction at a corresponding one of said component supply sections and successive component recognition at said second recognition section.

29. (New) The component mounting apparatus according to claim 28, wherein
one of said first and second mounting head sections is constructed and arranged to mount components at high speed, and the other of said first and second mounting head sections is constructed and arranged to mount components that require mounting with a high degree of precision.

30. (New) The component mounting apparatus according to claim 26, wherein
either of said first and second mounting head sections is constructed and arranged to be selectively operated in accordance with a type of board positioned at said board positioning section, and

one of said first and second mounting head sections is constructed and arranged to mount larger components, and the other of said first and second mounting head sections is constructed and arranged to mount smaller components.

31. (New) The component mounting apparatus according to claim 26, wherein either of said first and second mounting head sections is constructed and arranged to perform suction of larger components after finishing suction of smaller components.

32. (New) The component mounting apparatus according to claim 26, wherein either of said first and second mounting head sections is constructed and arranged to mount smaller components after mounting larger components.

33. (New) A component mounting method comprising:
providing a component mounting apparatus including

- (i) component supply sections for accommodating a plurality of components, said component supply sections being arranged on opposite sides of a board positioning section, respectively;
- (ii) a first mounting head section having
 - (a) a first rotary member constructed and arranged to be rotatively driven about a first horizontal axis,
 - (b) first component suction nozzles attached to said first rotary member along respective first axes, and
 - (c) a first recognition section opposed to said first rotary member, said first mounting head section being constructed and arranged to
 - (1) perform successive suction operations in order to pick up components from one of said component supply sections via said first component suction nozzles, respectively,

(2) perform, via said first recognition section upon intermittent rotation of said first rotary member, successive recognition operations of the components respectively sucked by said first component suction nozzles, and

(3) successively mount the components, respectively sucked by said first component suction nozzles, onto a board at said board positioning section upon intermittent rotation of said first rotary member, and

(iii) a second mounting head section having

(a) a second rotary member constructed and arranged to be rotatively driven about a second horizontal axis,

(b) second component suction nozzles attached to said second rotary member along respective second axes, and

(c) a second recognition section opposed to said second rotary member, said second mounting head section being constructed and arranged to

(1) perform successive suction operations in order to pick up components from another one of said component supply sections via said second component suction nozzles, respectively,

(2) perform, via said second recognition section upon intermittent rotation of said second rotary member, successive recognition operations of the components respectively sucked by said second component suction nozzles, and

(3) successively mount the components, respectively sucked by said second component suction nozzles, onto the board at said board positioning section upon intermittent rotation of said second rotary member;

positioning said first mounting head section relative to one of the component supply sections;

rotating said first rotary member about said first horizontal axis, thereby successively sucking components from said one of said component supply sections via said first component suction nozzles;

simultaneously with the intermittent rotation of said first rotary member, using said first recognition section to recognize said components sucked by said first component suction nozzles;

positioning said first mounting head section relative to a board at said board mounting position; and then

intermittently rotating said first rotary member about said first horizontal axis, thereby successively mounting onto said board said components sucked by said first component suction nozzles.

34. (New) The method according to claim 33, further comprising:

prior to successively mounting to said board said components sucked by said first component suction nozzles, successively rotating said first component suction nozzles about said respective first axes, respectively, in accordance with recognition results from said first recognition section, thereby successively adjusting postures of said components sucked by said first component suction nozzles.

35. (New) The method according to claim 34, further comprising:

when said one of said component supply sections needs to be replenished with components, replenishing said one of said component supply sections with components while

(i) positioning said second mounting head section relative to another of the component supply sections,

(ii) rotating said second rotary member about said second horizontal axis, thereby successively sucking components from said another of said component supply sections via said second component suction nozzles,

(iii) simultaneously with the intermittent rotation of said second rotary member, using said second recognition section to recognize said components sucked by said second component suction nozzles,

(iv) successively rotating said second component suction nozzles about said respective second axes, respectively, in accordance with recognition results from said second recognition section, thereby successively adjusting postures of said components sucked by said second component suction nozzles,

(v) positioning said second mounting head section relative to said board at said board mounting position, and then

(vi) intermittently rotating said second rotary member about said second horizontal axis, thereby successively mounting onto said board said components sucked by said second component suction nozzles.

36. (New) A component mounting method comprising:
providing a component mounting apparatus including

(i) component supply sections for accommodating a plurality of components, said component supply sections being arranged on opposite sides of a board positioning section, respectively;

(ii) a first mounting head section including

(a) a first rotary member constructed and arranged to be rotatively driven about a horizontal axis, and

(b) first component suction nozzles attached to said first rotary member along first respective axes;

(iii) a second mounting head section including

(a) a second rotary member constructed and arranged to be rotatively driven about a horizontal axis, and

(b) second component suction nozzles attached to said second rotary member along second respective axes;

(iv) a first recognition section; and

(v) a second recognition section,

wherein said first mounting head section is constructed and arranged to

(1) perform successive suction operations in order to pick up components from one of said component supply sections via said first component suction nozzles,

(2) move to said first recognition section so as to have performed, upon rotation of said first rotary member, successive recognition operations of the components respectively sucked by said first component suction nozzles, and

(3) successively mount the components, respectively sucked by said first component suction nozzles, onto a board at said board positioning section upon rotation of said first rotary member, and

wherein said second mounting head section is constructed and arranged to

(1) perform successive suction operations in order to pick up components from another one of said component supply sections via said second component suction nozzles,

(2) move to said second recognition section so as to have performed, upon rotation of said second rotary member, successive recognition operations of the components respectively sucked by said second component suction nozzles, and

(3) successively mount the components, respectively sucked by said second component suction nozzles, onto a board at said board positioning section upon rotation of said second rotary member;

positioning said first mounting head section relative to one of said component supply sections;

rotating said first rotary member about said first horizontal axis, thereby successively sucking components from said one of said component supply sections via said first component suction nozzles; then

moving said first mounting head section to said first recognition section, and using said first recognition section to recognize said components sucked by said first component suction nozzles;

positioning said first mounting head section relative to a board at said board mounting position; and then

intermittently rotating said first rotary member about said first horizontal axis, thereby successively mounting onto said board said components sucked by said first component suction nozzles.

37. (New) The method according to claim 36, further comprising:

prior to successively mounting to said board said components sucked by said first component suction nozzles, successively rotating said first component suction nozzles about said respective first axes, respectively, in accordance with recognition results from said first recognition section, thereby

successively adjusting postures of said components sucked by said first component suction nozzles.

38. (New) The method according to claim 37, further comprising:

when said one of said component supply sections needs to be replenished with components, replenishing said one of said component supply sections with components while

(i) positioning said second mounting head section relative to another of the component supply sections,

(ii) rotating said second rotary member about said second horizontal axis, thereby successively sucking components from said another of said component supply sections via said second component suction nozzles, then

(iii) moving said second mounting head section to said second recognition section, and using said second recognition section to recognize said components sucked by said second component suction nozzles,

(iv) successively rotating said first component suction nozzles about said respective first axes, respectively, in accordance with recognition results from said first recognition section, thereby successively adjusting postures of said components sucked by said first component suction nozzles,

(v) positioning said second mounting head section relative to said board at said board mounting position, and then

(vi) intermittently rotating said second rotary member about said second horizontal axis, thereby successively mounting onto said board said components sucked by said second component suction nozzles.

39. (New) A component mounting method comprising:

positioning a first mounting head section relative to a component supply section;

rotating a first rotary member of said first mounting head section about a first horizontal axis, thereby successively sucking components from said component supply section via first component suction nozzles attached to said rotary member;

simultaneously with the rotation of said first rotary member, using a first recognition section to recognize said components sucked by said first component suction nozzles;

positioning said first mounting head section relative to a board at a board mounting position; and then

intermittently rotating said first rotary member about said first horizontal axis, thereby successively mounting onto said board said components sucked by said first component suction nozzles.

40. (New) The method according to claim 39, further comprising:

prior to successively mounting to said board said components sucked by said first component suction nozzles, successively rotating said first component suction nozzles about respective first axes, respectively, in accordance with recognition results from said first recognition section, thereby successively adjusting postures of said components sucked by said first component suction nozzles.

41. (New) The method according to claim 40, further comprising:

when said component supply section needs to be replenished with components, replenishing said component supply section with components while

(i) positioning a second mounting head section relative to another component supply section,

(ii) rotating a second rotary member of said second head section about a second horizontal axis, thereby successively sucking components from said another component supply section via second component suction nozzles attached to said second rotary member,

(iii) simultaneously with the rotation of said second rotary member, using a second recognition section to recognize said components sucked by said second component suction nozzles,

(iv) successively rotating said second component suction nozzles about respective second axes, respectively, in accordance with recognition results from said second recognition section, thereby successively adjusting postures of said components sucked by said second component suction nozzles,

(v) positioning said second mounting head section relative to said board at said board mounting position, and then

(vi) intermittently rotating said second rotary member about said second horizontal axis, thereby successively mounting onto said board said components sucked by said second component suction nozzles.

42. (New) The method according to claim 41, further comprising:
after replenishing said component supply section with components

(i) positioning said first mounting head section relative to said component supply section,

(ii) rotating said first rotary member about said first horizontal axis, thereby successively sucking components from said component supply section via said first component suction nozzles,

(iii) simultaneously with the rotation of said first rotary member, using said first recognition section to recognize said components sucked by said first component suction nozzles,

(iv) successively rotating said first component suction nozzles about said respective first axes, respectively, in accordance with recognition results from said first recognition section, thereby successively adjusting postures of said components sucked by said first component suction nozzles,

(v) positioning said first mounting head section relative to a board at said board mounting position, and then

(vi) intermittently rotating said first rotary member about said first horizontal axis, thereby successively mounting onto said board said components sucked by said first component suction nozzles.

43. (New) A component mounting method comprising:
positioning a first mounting head section relative to a component supply section;

rotating a first rotary member of said first mounting head section about a first horizontal axis, thereby successively sucking components from said component supply section via first component suction nozzles attached to said rotary member; then

using a first recognition section to recognize said components sucked by said first component suction nozzles;

positioning said first mounting head section relative to a board at a board mounting position; and then

intermittently rotating said first rotary member about said first horizontal axis, thereby successively mounting onto said board said components sucked by said first component suction nozzles.

44. (New) The method according to claim 43, further comprising:

prior to successively mounting to said board said components sucked by said first component suction nozzles, successively rotating said first component suction nozzles about respective first axes, respectively, in accordance with recognition results from said first recognition section, thereby successively adjusting postures of said components sucked by said first component suction nozzles.

45. (New) The method according to claim 44, further comprising:

when said component supply section needs to be replenished with components, replenishing said component supply section with components while

(i) positioning a second mounting head section relative to another component supply section,

(ii) rotating a second rotary member of said second head section about a second horizontal axis, thereby successively sucking components from said another component supply section via second component suction nozzles attached to said second rotary member, then

(iii) using a second recognition section to recognize said components sucked by said second component suction nozzles,

(iv) successively rotating said second component suction nozzles about respective second axes, respectively, in accordance with recognition results from said second recognition

section, thereby successively adjusting postures of said components sucked by said second component suction nozzles,

(v) positioning said second mounting head section relative to said board at said board mounting position, and then

(vi) intermittently rotating said second rotary member about said second horizontal axis, thereby successively mounting onto said board said components sucked by said second component suction nozzles.

46. (New) The method according to claim 45, further comprising:

after replenishing said component supply section with components

(i) positioning said first mounting head section relative to said component supply section,

(ii) rotating said first rotary member about said first horizontal axis, thereby successively sucking components from said component supply section via said first component suction nozzles, then

(iii) using said first recognition section to recognize said components sucked by said first component suction nozzles,

(iv) successively rotating said first component suction nozzles about said respective first axes, respectively, in accordance with recognition results from said first recognition section, thereby successively adjusting postures of said components sucked by said first component suction nozzles,

(v) positioning said first mounting head section relative to a board at said board mounting position, and then

(vi) intermittently rotating said first rotary member about said first horizontal axis, thereby successively mounting onto said board said components sucked by said first component suction nozzles.

47. (New) A component mounting assembly including component mounting apparatuses positioned along a board transfer path, each of said component mounting apparatuses comprising:

first and second component supply sections for accommodating a plurality of components, said component supply sections being arranged on opposite sides of a board positioning section, respectively;

a first mounting head section including

(i) a first rotary member constructed and arranged to be rotatively driven about a first horizontal axis,

(ii) first component suction nozzles attached to said first rotary member along respective first axes, and

(iii) a first recognition section opposed to said first rotary member,

said first mounting head section being constructed and arranged to

(a) perform successive suction operations in order to pick up components from said first component supply section via said first component suction nozzles, respectively,

(b) perform, via said first recognition section upon intermittent rotation of said first rotary member, successive recognition operations of the components respectively sucked by said first component suction nozzles, and

(c) successively mount the components, respectively sucked by said first component suction nozzles, onto a board at said board positioning section upon intermittent rotation of said first rotary member; and

a second mounting head section including

(i) a second rotary member constructed and arranged to be rotatively driven about a second horizontal axis,

(ii) second component suction nozzles attached to said second rotary member along respective second axes, and

(iii) a second recognition section opposed to said second rotary member,

said second mounting head section being constructed and arranged to

(a) perform successive suction operations in order to pick up components from said second component supply sections via said second component suction nozzles, respectively,

(b) perform, via said second recognition section upon intermittent rotation of said second rotary member, successive recognition operations of the components respectively sucked by said second component suction nozzles, and

(c) successively mount the components, respectively sucked by said second component suction nozzles, onto the board at said board positioning section upon intermittent rotation of said second rotary member,

wherein all of said first component supply sections are positioned on one side of the board transfer path, and all of said second component supply sections are positioned on another side of the board transfer path.

48. (New) A component mounting assembly including component mounting apparatuses positioned along a board transfer path, each of said component mounting apparatuses comprising:

first and second component supply sections for accommodating a plurality of components, said component supply sections being arranged on opposite sides of a board positioning section, respectively;

a first mounting head section including

(i) a first rotary member constructed and arranged to be rotatively driven about a horizontal axis, and

(ii) first component suction nozzles attached to said first rotary member along first respective axes;

a second mounting head section including

(i) a second rotary member constructed and arranged to be rotatively driven about a horizontal axis, and

(ii) second component suction nozzles attached to said second rotary member along second respective axes;

a first recognition section; and

a second recognition section,

wherein said first mounting head section is constructed and arranged to

(1) perform successive suction operations in order to pick up components from said first component supply section via said first component suction nozzles,

(2) move to said first recognition section so as to have performed, upon rotation of said first rotary member, successive recognition operations of the components respectively sucked by said first component suction nozzles, and

(3) successively mount the components, respectively sucked by said first component suction nozzles, onto a board at said board positioning section upon rotation of said first rotary member,

wherein said second mounting head section is constructed and arranged to

(1) perform successive suction operations in order to pick up components from said second component supply sections via said second component suction nozzles,

(2) move to said second recognition section so as to have performed, upon rotation of said second rotary member, successive recognition operations of the components respectively sucked by said second component suction nozzles, and

(3) successively mount the components, respectively sucked by said second component suction nozzles, onto a board at said board positioning section upon rotation of said second rotary member, and

wherein all of said first component supply sections are positioned on one side of the board transfer path, and all of said second component supply sections are positioned on another side of the board transfer path.

49. (New) The component mounting apparatus according to claim 1, wherein said first mounting head section is constructed and arranged to successively mount the components, respectively sucked by said component suction nozzles of said first mounting head section, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said component suction nozzles of said first mounting head section, and

said second mounting head section is constructed and arranged to successively mount the components, respectively sucked by said component suction nozzles of said second mounting head

section, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said component suction nozzles of said second mounting head section.

50. (New) The component mounting apparatus according to claim 25, wherein
said first mounting head section is constructed and arranged to successively mount the components, respectively sucked by said first component suction nozzles, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said first component suction nozzles, and
said second mounting head section is constructed and arranged to successively mount the components, respectively sucked by said second component suction nozzles, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said second component suction nozzles.

51. (New) The method according to claim 33, wherein
successively mounting onto said board said components sucked by said first component suction nozzles comprises mounting all of said sucked components onto said board before another component is picked up by any of said first component suction nozzles.

52. (New) The method according to claim 36, wherein
successively mounting onto said board said components sucked by said first component suction nozzles comprises mounting all of said sucked components onto said board before another component is picked up by any of said first component suction nozzles.

53. (New) The method according to claim 39, wherein
successively mounting onto said board said components sucked by said first component suction nozzles comprises mounting all of said components onto said board before another component is picked up by any of said first component suction nozzles, and before another component is recognized by said first recognition section.

54. (New) The method according to claim 43, wherein
successively mounting onto said board said components sucked by said first component suction nozzles comprises mounting all of said components onto said board before another component is picked up by any of said first component suction nozzles, and before another component is recognized by said first recognition section.

55. (New) The component mounting assembly according to claim 47, wherein
said first mounting head section is constructed and arranged to successively mount the components, respectively sucked by said first component suction nozzles, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said first component suction nozzles, and

said second mounting head section is constructed and arranged to successively mount the components, respectively sucked by said second component suction nozzles, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said second component suction nozzles.

56. (New) The component mounting assembly according to claim 48, wherein
said first mounting head section is constructed and arranged to successively mount the components, respectively sucked by said first component suction nozzles, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said first component suction nozzles, and

said second mounting head section is constructed and arranged to successively mount the components, respectively sucked by said second component suction nozzles, onto the board at said board positioning section by mounting all of the sucked components before another component is picked up by any of said second component suction nozzles.

57. (New) The component mounting apparatus according to claim 1, wherein said component supply sections are arranged on opposite sides of a board transfer path in which is provided said board positioning section.

58. (New) The component mounting apparatus according to claim 25, wherein said component supply sections are arranged on opposite sides of a board transfer path in which is provided said board positioning section.

59. (New) The component mounting apparatus according to claim 33, wherein said component supply sections are arranged on opposite sides of a board transfer path in which is provided said board positioning section.

60. (New) The component mounting apparatus according to claim 36, wherein said component supply sections are arranged on opposite sides of a board transfer path in which is provided said board positioning section.